

Title (en)
ANTIREFLECTION FILM-EQUIPPED GLASS SUBSTRATE AND OPTICAL COMPONENT

Title (de)
MIT ANTIREFLEXSCHICHT VERSEHENES GLASSUBSTRAT UND OPTISCHES BAUTEIL

Title (fr)
SUBSTRAT EN VERRE POURVU D'UN FILM ANTIREFLET ET ÉLÉMENT OPTIQUE

Publication
EP 3747841 A4 20211027 (EN)

Application
EP 19747761 A 20190130

Priority
• JP 2018015905 A 20180131
• JP 2018186777 A 20181001
• JP 2019003151 W 20190130

Abstract (en)
[origin: US2020346973A1] A glass substrate with an antireflection film, comprising a glass substrate which consists of glass having refractive index (nd) of from 1.68 to 2.00 and which has plate thickness of from 0.01 to 2 mm, and an antireflection film formed on at least one principal plane of the glass substrate.

IPC 8 full level
C03C 17/34 (2006.01); **C03C 3/064** (2006.01); **C03C 3/097** (2006.01); **C03C 17/245** (2006.01); **G02B 1/115** (2015.01)

CPC (source: EP US)
C03C 3/062 (2013.01 - US); **C03C 3/064** (2013.01 - EP US); **C03C 3/066** (2013.01 - US); **C03C 3/068** (2013.01 - EP US); **C03C 3/097** (2013.01 - US); **C03C 3/19** (2013.01 - EP); **C03C 3/21** (2013.01 - EP); **C03C 17/34** (2013.01 - EP); **C03C 17/3417** (2013.01 - US); **G02B 1/115** (2013.01 - EP US); **G02B 1/14** (2015.01 - EP); **C03C 2217/212** (2013.01 - US); **C03C 2217/213** (2013.01 - US); **C03C 2217/734** (2013.01 - EP US); **C03C 2218/154** (2013.01 - US)

Citation (search report)
• [IY] JP 2014056215 A 20140327 - RICOH IMAGING CO LTD
• [IJ] US 2014133032 A1 20140515 - AMANO SAYOKO [JP], et al
• [Y] WO 2016190303 A1 20161201 - ASAHI GLASS CO LTD [JP] & US 2018082914 A1 20180322 - HANAWA YU [JP], et al
• [Y] WO 2010126141 A1 20101104 - OHARA KK [JP], et al
• See also references of WO 2019151321A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
US 11964904 B2 20240423; **US 2020346973 A1 20201105**; CN 111683910 A 20200918; EP 3747841 A1 20201209; EP 3747841 A4 20211027; JP 7222360 B2 20230215; JP WO2019151321 A1 20210128; TW 201934516 A 20190901; TW I771562 B 20220721; WO 2019151321 A1 20190808

DOCDB simple family (application)
US 202016929343 A 20200715; CN 201980011005 A 20190130; EP 19747761 A 20190130; JP 2019003151 W 20190130; JP 2019569176 A 20190130; TW 108103778 A 20190131